### SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- 5 (i) APPLICANT:
  - (A) NAME: bioMérieux B.V.
  - (B) STREET: Postbus 84
  - (C) CITY: Boxtel
  - (E) COUNTRY: The Netherlands
- 10 (F) POSTAL CODE (ZIP): 5280 AB
  - (ii) TITLE OF INVENTION: Nucleic acid sequences that can be used as primers and probes in the amplification and detection of SARS Coronavirus.

(iii) NUMBER OF SEQUENCES: 47

- (iv) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
- 20 (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
- 25 (2) INFORMATION FOR SEQ ID NO: 1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 134 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: DNA

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- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

  TACCTCTCCA GCTAGGATTT TCTACAGGTG TTAACTTAGT AGCTGTACCG
  ACTGGTTATG TTGACACTGA AAATAACACA GAATTCACCA GAGTTAATGC

  AAAACCTCCA CCAGGTGACC AGTTTAAACA TCTT 134
  - (2) INFORMATION FOR SEQ ID NO: 2:
    - (i) SEQUENCE CHARACTERISTICS:
- 10 (A) LENGTH: 89 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- 15 (ii) MOLECULE TYPE: DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
- ATGAATTACC AAGTCAATGG TTACCCTAAT ATGTTTATCA CCCGCGAAGA

  20 AGCTATTCGT CACGTTCGTG CGTGGATTGG CTTTGATGT 89
  - (2) INFORMATION FOR SEQ ID NO: 3:
    - (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 28 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- 30 (ii) MOLECULE TYPE: DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

TCCACCAGGT GACCAGTTTA AACATCTT 28

	(2) INFORMATION FOR SEQ ID NO: 4:
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 26 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
10	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
	TAGTAGCTGT ACCGACTGGT TATGTT 26
15	(2) INFORMATION FOR SEQ ID NO: 5:
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 23 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
	(ii) MOLECULE TYPE: DNA
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
	TACCTCTCCA GCTAGGATTT TCT 23
30	(2) INFORMATION FOR SEQ ID NO: 6:
	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 24 base pairs
	(B) TYPE: nucleic acid
3.5	(C) STRANDEDNESS: single
35	(D) TOPOLOGY: linear

	(II) MOLECULE TYPE: DNA
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
	ATGAATTACC AAGTCAATGG TTAC 24
	(2) INFORMATION FOR SEQ ID NO: 7:
10	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 20 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>
15	(D) TOPOLOGY: linear
	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
2.0	GAAGCTATTC GTCACGTTCG 20
	(2) INFORMATION FOR SEQ ID NO: 8:
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
30	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
35	TGCGTGGATT GGCTTTGATG T 21

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	(2) INFORMATION FOR SEQ ID NO: 9:
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 53 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
10	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
	AATTCTAATA CGACTCACTA TAGGGAAGAT GTTTAAACTG GTCACCTGGT GGA 53
15	(2) INFORMATION FOR SEQ ID NO: 10:
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 51 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
	(ii) MOLECULE TYPE: DNA
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
	AATTCTAATA CGACTCACTA TAGGGAACAT AACCAGTCGG TACAGCTACT A 51
30	(2) INFORMATION FOR SEQ ID NO: 11:
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 48 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>
35	(D) TOPOLOGY: linear

	(ii) MOLECULE TYPE: DNA
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
	AATTCTAATA CGACTCACTA TAGGGAGAAA ATCCTAGCTG GAGAGGTA 48
	(2) INFORMATION FOR SEQ ID NO: 12:
10	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 56 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>
15	(D) TOPOLOGY: linear
13	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
20	GTTCGTGCGT GGATTGGCTT TGATGTAGAG GGCTGTCATG CAACTAGAGA TGCTGT 56
	(2) INFORMATION FOR SEQ ID NO: 13:
25	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 38 base pairs
	(B) TYPE: nucleic acid
30	(C) STRANDEDNESS: single (D) TOPOLOGY: linear
	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
35	CCATGGGCTG TCATGCAACT AGAGATGCTG TCCCATGG 38

(2) INFORMATION FOR SEQ ID NO: 14:
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 53 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear
10 (ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
TCAGCCCCAG ATGGTACTTC TATTACCTAG GAACTGGCCC AGAAGCTTCA  15 CTT 53
(2) INFORMATION FOR SEQ ID NO: 15:
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear
25 (ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
TCAGCCCCAG ATGGTACTTC T 21
(2) INFORMATION FOR SEQ ID NO: 16:
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 26 base pairs  (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- 5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
  - TAGGAACTGG CCCAGAAGCT TCACTT 26
  - (2) INFORMATION FOR SEQ ID NO: 17:

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- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 123 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
- 15 (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

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AGGTTTACCC AATAATACTG CGTCTTGGTT CACAGCTCTC ACTCAGCATG GCAAGGAGGA ACTTAGATTC CCTCGAGGCC AGGGCGTTCC AATCAACACC AATAGTGGTC CAGATGACCA AAT 123

- 25 (2) INFORMATION FOR SEQ ID NO: 18:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 23 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: DNA
- 35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

## AGGTTTACCC AATAATACTG CGT 23

(2) INFORMATION	FOR	SEQ	ID	NO:	19:
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- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

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- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

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AGATTCCCTC GAGGCCAGGG CGT 23

- (2) INFORMATION FOR SEQ ID NO: 20:
- 20 (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
- 30 ATAGTGGTCC AGATGACCAA AT 22
  - (2) INFORMATION FOR SEQ ID NO: 21:
    - (i) SEQUENCE CHARACTERISTICS:
- 35 (A) LENGTH: 628 base pairs

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- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- 5 (ii) MOLECULE TYPE: DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
- GGCTACTACC GAAGAGCTAC CCGACGAGTT CGTGGTGGTG ACGGCAAAAT GAAAGAGCTC AGCCCCAGAT GGTACTTCTA TTACCTAGGA ACTGGCCCAG 10 AAGCTTCACT TCCCTACGGC GCTAACAAAG AAGGCATCGT ATGGGTTGCA ACTGAGGGAG CCTTGAATAC ACCCAAAGAC CACATTGGCA CCCGCAATCC TAATAACAAT GCTGCCACCG TGCTACAACT TCCTCAAGGA ACAACATTGC CAAAAGGCTT CTACGCAGAG GGAAGCAGAG GCGGCAGTCA AGCCTCTTCT CGCTCCTCAT CACGTAGTCG CGGTAATTCA AGAAATTCAA CTCCTGGCAG 15 CAGTAGGGGA AATTCTCCTG CTCGAATGGC TAGCGGAGGT GGTGAAACTG CCCTCGCGCT ATTGCTGCTA GACAGATTGA ACCAGCTTGA GAGCAAAGTT TCTGGTAAAG GCCAACAACA ACAAGGCCAA ACTGTCACTA AGAAATCTGC TGCTGAGGCA TCTAAAAAGC CTCGCCAAAA ACGTACTGCC ACAAAACAGT ACAACGTCAC TCAAGCATTT GGGAGACGTG GTCCAGAACA AACCCAAGGA 20 AATTTCGGGG ACCAAGACCT AATCAGACAA 630
  - (2) INFORMATION FOR SEQ ID NO: 22:
- 25 (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 39 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
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- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
- 35 CCATGGGCTA CTACCGAAGA GCTACCCGAC GACCCATGG 39

	(2) INFORMATION FOR SEQ ID NO: 23:
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 59 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
10	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:
15	TGCTCCAAGT GCCTCTGCAT TCTTTGGAAT GTCACGCATT GGCATGGAAG TCACACCTT 59
	(2) INFORMATION FOR SEQ ID NO: 24:
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 26 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
25	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:
30	TGCTCCAA GTGCCTCTGC ATTCTT 26
	(2) INFORMATION FOR SEQ ID. NO: 25:
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 21 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>

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- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA

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- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:
- TTGGCATGGA AGTCACACCT T 21
- 10 (2) INFORMATION FOR SEQ ID NO: 26:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 128 base pairs
    - (B) TYPE: nucleic acid
- 15 (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: DNA
- 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

CCAAACTGTC ACTAAGAAAT CTGCTGCTGA GGCATCTAAA AAGCCTCGCC AAAAACGTAC TGCCACAAAA CAGTACAACG TCACTCAAGC ATTTGGGAGA CGTGGTCCAG AACAAACCCA AGGAAATT 128

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- (2) INFORMATION FOR SEQ ID NO: 27:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 25 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: DNA

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:
5	CCAAACTGTC ACTAAGAAAT CTGCT 25
	(2) INFORMATION FOR SEQ ID NO: 28:
10	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 23 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
15	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:
	CTCAAGCATT TGGGAGACGT GGT 23
20	(2) INFORMATION FOR SEQ ID NO: 29:
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs
25	<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
	(ii) MOLECULE TYPE: DNA
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:
	CAGAACAAAC CCAAGGAAAT T 21
35	(2) INFORMATION FOR SEQ ID NO: 30:

5	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 32 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear
	(ii) MOLECULE TYPE: DNA
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:
	CCATGGACCA AGACCTAATC AGACAACCAT GG 32
	(2) INFORMATION FOR SEQ ID NO: 31:
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 72 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>
20	<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>
	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:
25	TGCCTATATG GAAGAGCCCT AATGTGTAAA ATTAATTTTA GTAGTGCTAT CCCCATGTGA TTTTAATAGC TT 72
	(2) INFORMATION FOR SEQ ID NO: 32:
30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 19 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
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	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:
5	TGCCTATATG GAAGAGCCC 19
	(2) INFORMATION FOR SEQ ID NO: 33:
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 23 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
15	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:
20	TCCCCATGTG ATTTTAATAG CTT 23
	(2) INFORMATION FOR SEQ ID NO: 34:
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 112 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
30	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:
35	TACGATACAT AGTCTACTCT TGTGCAGAAT GAATTCTCGT AACTAAACAG CACAAGTAGG TTTAGTTAAC TTTAATCTCA CATAGCAATC TTTAATCAAT

35 GT 112

	(2) INFORMATION FOR SEQ ID NO: 35:
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 23 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
10	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:
15	TACGATACAT AGTCTACTCT TGT 23
	(2) INFORMATION FOR SEQ ID NO: 36:
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 22 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
25	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:
	TAACTAAACA GCACAAGTAG GT 22
30	(2) INFORMATION FOR SEQ ID NO: 37:
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 20 base pairs</li></ul>
15	(B) TYPE: nucleic acid
, ,	(C) STRANDEDNESS: single

(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA
5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:
TAGCAATCTT TAATCAATGT 20
(2) INFORMATION FOR SEQ ID NO: 38:
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 22 base pairs</li></ul>
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:
GCCACCACAT TTTCATCGAG GC 22
(2) INFORMATION FOR SEQ ID NO: 39:
25 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 46 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

35 AATTCTAATA CGACTCACTA TAGGGAGAAG TACCATCTGG GGCTGA 46

	(2) INFORMATION FOR SEQ ID NO: 40:
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 51 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
10	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:
15	AATTCTAATA CGACTCACTA TAGGGAAGTG AAGCTTCTGG GCCAGTTCCT A 51
	(2) INFORMATION FOR SEQ ID NO: 41:
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 49 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>
25	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:
30	AATTCTAATA CGACTCACTA TAGGGAAGAA TGCAGAGGCA CTTGGAGCA 49
	(2) INFORMATION FOR SEQ ID NO: 42:
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 46 base pairs
35	(B) TYPE: nucleic acid

	(C) STRANDEDNESS: single
	(D) TOPOLOGY: linear
	(ii) MOLECULE TYPE: DNA
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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:
	AATTCTAATA CGACTCACTA TAGGGAAGGT GTGACTTCCA TGCCAA 46
10	(2) INFORMATION FOR SEQ ID NO: 43:
	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 44 base pairs
	(B) TYPE: nucleic acid
15	(C) STRANDEDNESS: single
	(D) TOPOLOGY: linear
	(ii) MOLECULE TYPE: DNA
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:
	AATTCTAATA CGACTCACTA TAGGGGGGCT CTTCCATATA GGCA 44
25	(2) INFORMATION FOR SEQ ID NO: 44:
	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 48 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: single
30	(D) TOPOLOGY: linear
	(ii) MOLECULE TYPE: DNA
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:
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# AATTCTAATA CGACTCACTA TAGGGAAGCT ATTAAAATCA CATGGGGA 48

(2) INFORMATION	FOR	SEQ	ID	NO:	45:
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- 5 (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 32 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:
- 15 CGCGATGTTC GTGCGTGGAT TGGCTTATCG CG 32
  - (2) INFORMATION FOR SEQ ID NO: 46:
    - (i) SEQUENCE CHARACTERISTICS:
- 20 (A) LENGTH: 24 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- 25 (ii) MOLECULE TYPE: DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:

GCTGTCATGC AACTAGAGAT GCTGT 24

- (2) INFORMATION FOR SEQ ID NO: 47:
  - (i) SEQUENCE CHARACTERISTICS:
- 35 (A) LENGTH: 32 base pairs

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- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- 5 (ii) MOLECULE TYPE: DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:

CCATGCGCCA CCACATTTTC ATCGAGGCAT GG 32